A2500-2

Paper, Paperboard & Wood Pulp

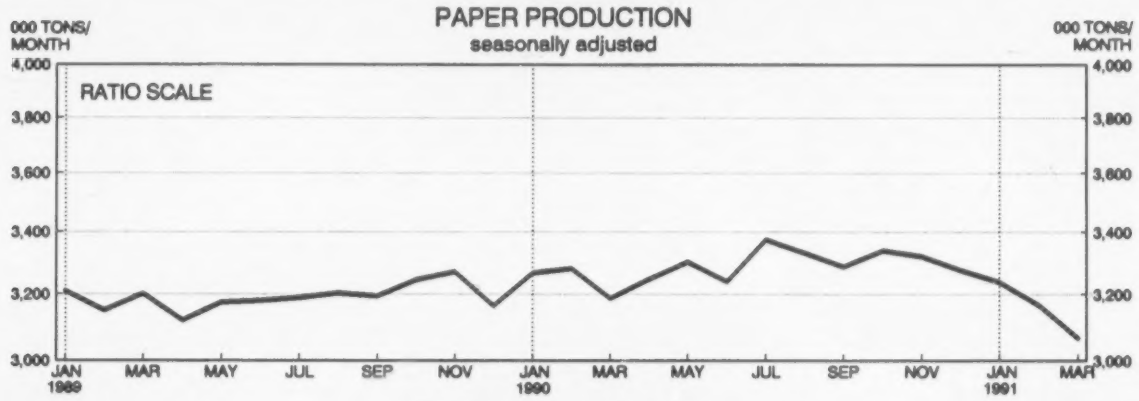
MONTHLY STATISTICAL SUMMARY - Vol.69 No.4 APRIL 1991

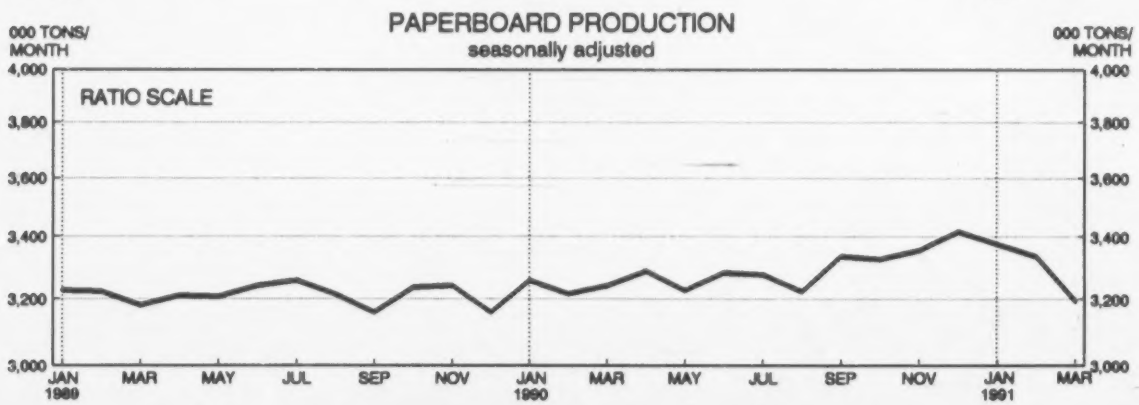
PAPER AND PAPERBOARD PRODUCTION, FIRST QUARTER 1991: DEMAND WEAKNESS

Total production of paper and paperboard trended downward throughout the first quarter of this year. The seasonally adjusted March 1991 rate was 6.4% below its December 1990 high and 2.6% under its year-ago level. The first quarter 1991 total, however, was within 0.4% of its comparable 1990 rate.

The weakness in the reported data was centered on the paper grades, which came in 2.7% below their corresponding 1990 total. Paperboard production gained 1.9%, although here, too, the seasonally adjusted data moved steadily downward during the 1991 quarter.

The charts below present seasonally adjusted monthly rates of paper and paperboard production from January 1989 through March 1991. A ratio scale is used, so that, for example, the distance from 3.4 to 3.2 million tons represents a decline of 5.9%.





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Paper: The current recession has had a particularly strong impact on the printing-writing papers, driving first quarter 1991 shipments 5.8% below their year-ago total. The uncoated groundwood, coated free sheet and bleached bristols grades showed declines below this average (see table on page 3), but output of the other grades -- thin, cotton fiber and uncoated free sheet papers -- fell more steeply.

All major consumers reduced their paper demands in the first quarter of 1991. The largest declines occurred in shipments to magazine publishers, business forms converters and envelope converters. Commercial printers, office reprographics (this category includes office copy paper) and book publishers made modest reductions in their requirements.

With the exception of the bleached kraft grades, output of the other paper grades held up fairly well. Tissue paper production, for example, was up slightly while newsprint production gained 4.1%. Newsprint consumption, however, was 6.2% below its year-ago rate in the first two months of 1991. Inventories of newsprint at publishers rose to 44 days of supply as of the end of February, from 41 days in December 1990 and 37 days in February 1990.

Bleached kraft paper shipments were down 13% in the first quarter of 1991 from the comparable 1990 quarter. This was not so much an effect of the business cycle as it was the result of a major user shifting his requirements from bleached kraft to recycled paper bags.

Shipments of unbleached kraft paper from domestic mills were down by 0.9%. When net imports and consumption of bags made from recycled papers are included, the total new supply of these papers gained 3.8%.

Paperboard: Production of containerboard for domestic packaging use was 1.7% ahead of its corresponding 1990 total in the first quarter of 1991, but the month-to-month comparisons point to demand decline. The January 1991 total, for example, while 5% above its year-ago total, was supported by a 337,000-ton increase in inventories of containerboard at mills and boxplants. Boxplant inventories declined slightly in February and March, largely offset by increases in mill inventories. March 1991 containerboard production for domestic use was 4% below that of March 1990, even with the increase in mill inventories.

Shipments of fiber boxes, which had held close to their year-earlier totals in January and February 1991, fell 8.9% below their March 1990 level in March 1991, bringing first quarter 1991 shipments 3.8% below those of the first quarter of 1990.

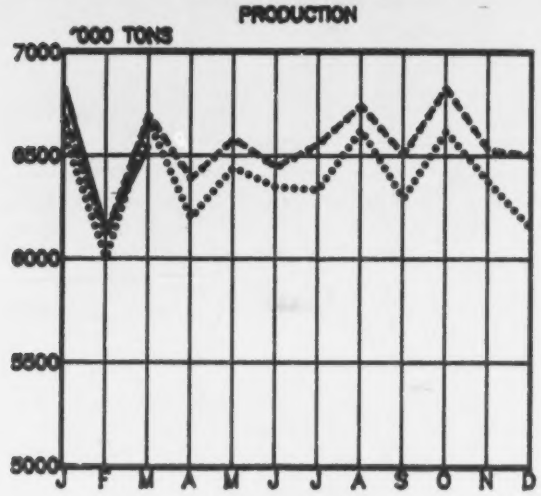
The weakness in box demand was in line with market trends. The weighted average of the paperboard demand indicators presented on the attached Industry Data Sheet was 1.9% below its year-ago rate in the first quarter of 1991, with total consumer goods output off 1.7% and production of materials down 2.6%.

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1989	YEAR 1990	DEC 1990	JAN 1991	FEB (R) 1991	MAR (P) 1991	Annual Rate Y-T-D 1991	% Change From Same Period Last Year
PAPER								
Newsprint – Production	6,088	6,815	576	576	522	574	6,686	4.1
– Shipments	6,079	6,628	576	581	513	574	6,672	3.8
Printing & Writing: Total Shipments	21,626	22,381	1,763	1,892	1,665	1,768	21,297	-5.8
Groundwood Paper – Shipments	1,743	1,768	147	145	133	147	1,696	-4.7
– New Orders	1,741	1,834	161	171	126	153	1,800	2.8
– Unshipped Orders	193	168	215	234	231	224	224	33.9
Coated Groundwood – Shipments	4,059	4,214	327	352	314	330	3,984	-3.0
Coated Free Sheet – Shipments	3,157	3,307	237	283	251	258	3,171	-4.5
Total Coated Papers – Shipments	7,215	7,521	564	635	565	588	7,155	-3.7
– New Orders	7,171	7,423	531	599	493	588	6,719	-5.1
– Unshipped Orders	706	602	591	534	477	475	475	-21.2
Uncid Free Sheet – Shipments	11,081	11,510	930	982	846	896	10,898	-6.8
– New Orders	11,097	11,499	862	915	792	881	10,351	-11.9
– Unshipped Orders	748	756	685	597	564	518	518	-31.5
Thin Papers – Shipments	262	234	14	20	17	18	219	-25.5
Cotton Fiber Paper – Shipments	161	161	11	13	11	13	150	-13.5
Bleached Bristols – Shipments	1,164	1,188	96	97	92	106	1,179	-4.9
Tissue Paper – Production	5,636	5,802	484	485	459	485	5,718	0.3
Total Packaging & Other Paper	4,916	4,613	357	388	360	390	4,553	-0.6
Unbl. Kraft Paper – Shipments	2,681	2,377	173	202	186	202	2,360	-0.9
Bl. Kraft Paper – Shipments	468	484	37	35	36	36	426	-13.1
Specialty Pkg. Paper – Production	520	563	51	53	46	50	591	10.5
Special Industrial Paper – Shipments	1,248	1,190	97	99	93	102	1,176	0.2
TOTAL PAPER PRODUCTION – UNADJUSTED	38,266	39,411	3,181	3,341	3,006	3,217	38,254	-2.7
TOTAL PAPER PRODUCTION – SEAS ADJ			3,276	3,238	3,167	3,066	37,885	-2.7
PAPERBOARD – PRODUCTION #								
Containerboard	26,428	27,388	2,384	2,432	2,172	2,280	27,532	2.9
Cont'bd For Dom Use for Fibre Boxes	23,752	24,432	2,073	2,164	1,900	1,964	24,114	1.7
Total Linerboard	16,399	16,875	1,424	1,503	1,307	1,345	16,617	2.3
Unbleached Kraft	15,833	16,414	1,386	1,454	1,260	1,282	15,984	0.9
Solid Bleached	178	139	11	12	10	13	142	-3.8
Recycled	388	323	28	36	36	50	491	83.7
Corrugating Medium	7,339	7,549	649	661	592	618	7,485	0.4
Semichemical	5,554	5,567	480	489	434	454	5,506	0.6
Recycled	1,785	1,982	169	172	158	164	1,978	0.0
Container Chip and Filler	14	7	0	0	1	2	13	3.2
Other Containerboard for Dom Use	307	282	24	23	21	26	276	2.2
Containerboard for Export	2,369	2,674	287	245	251	290	3,142	13.7
Boxboard	12,092	12,035	955	1,048	954	1,044	12,186	-0.4
Boxboard for Packaging for Dom Use	7,076	6,949	574	636	578	634	7,392	5.0
Folding Boxboard	5,370	5,198	443	477	440	480	5,588	5.6
Solid Bleached	1,980	1,818	158	166	148	160	1,894	-0.6
Unbleached Kraft	987	970	94	92	93	93	1,111	16.9
Recycled	2,403	2,410	191	219	199	227	2,583	6.1
Set-up Boxboard for Dom Use	288	290	18	23	22	23	272	-13.5
Milk Carton & Food Service Dom Use	1,419	1,461	113	136	117	131	1,532	6.7
Other Boxboard for Domestic Use	4,152	4,145	297	330	291	316	3,747	-10.8
Boxboard for Export	863	941	84	83	86	94	1,047	4.9
Paperboard Production by Furnish	38,456	39,423	3,339	3,480	3,126	3,324	39,718	1.9
Unbleached Kraft	19,490	20,357	1,795	1,823	1,624	1,701	20,593	3.8
Semichemical	5,691	5,710	494	499	453	469	5,681	1.1
Solid Bleached Kraft	4,521	4,399	370	391	359	387	4,550	0.5
Recycled	8,754	8,956	680	767	690	767	8,894	-1.1
Paperboard Production for Export	3,232	3,608	370	328	336	383	4,190	11.8
Unbleached Kraft	2,363	2,678	289	254	251	300	3,223	16.2
Semichemical	138	143	14	10	18	15	175	18.5
Bleached Kraft	693	734	64	58	64	63	738	-6.4
Recycled	38	52	3	6	3	5	54	22.7
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,519	39,423	3,339	3,480	3,126	3,324	39,718	1.9
TOTAL PAPERBOARD PROD – SEAS ADJ			3,417	3,375	3,336	3,196	39,628	1.9
PAPER AND PAPERBOARD – UNADJ	76,785	78,834	6,520	6,821	6,131	6,540	77,971	-0.4
PAPER AND PAPERBOARD – SEAS ADJ			6,693	6,613	6,503	6,262	77,513	-0.4

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted # – Data Revised per Annual Audit

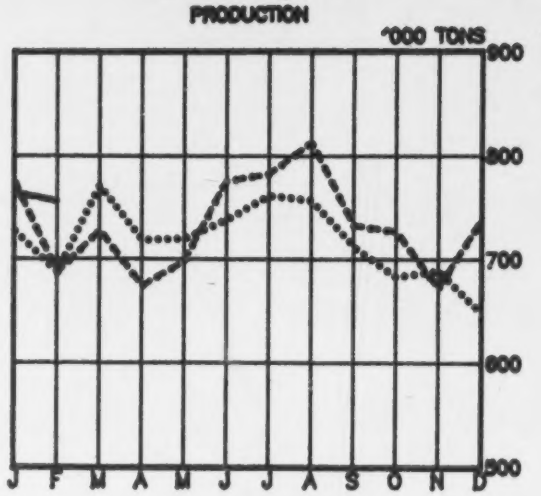
TOTAL PAPER AND PAPERBOARD

PRODUCTION



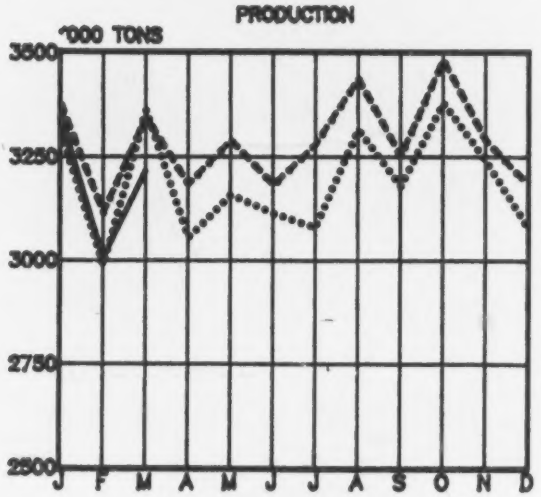
MARKET WOOD PULP

PRODUCTION



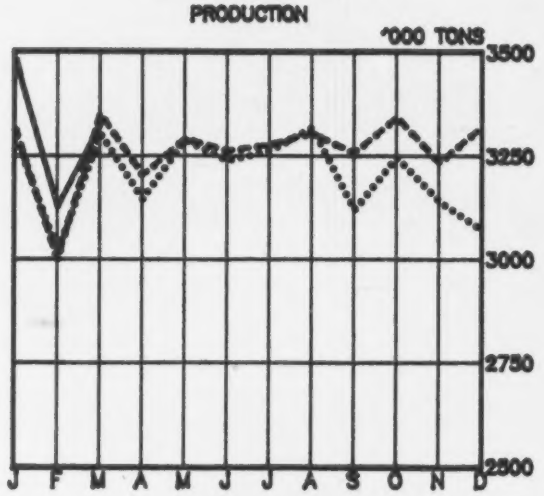
TOTAL PAPER

PRODUCTION



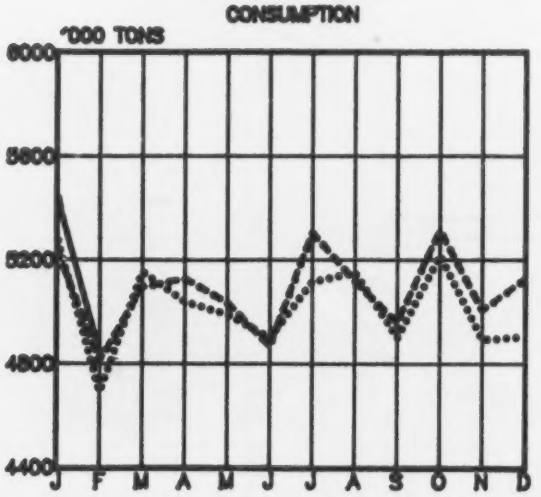
TOTAL PAPERBOARD

PRODUCTION



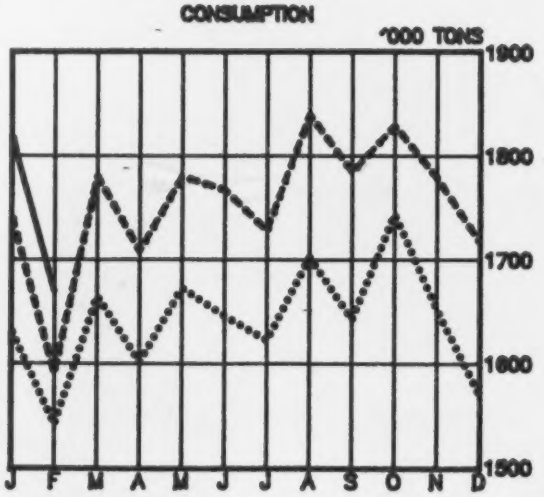
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



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WOOD PULP STATISTICS (Thousands of Tons)			YEAR 1989	YEAR 1990	NOV 1990	DEC 1990	JAN (R) 1991	FEB (P) 1991	Annual Rate Y-T-D 1991	% Change From Same Period Last Year
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,998	63,068	5,123	5,428	5,579	5,033	63,672	2.1
	Imports	A	5,005	4,893	390	329	423	430	5,118	1.9
	Exports		6,231	5,905	438	477	475	485	5,765	15.7
	New Supply		60,772	62,056	5,075	5,280	5,526	4,978	63,025	1.0
Dissolving Pulp	Production		1,425	1,293	71	123	115	104	1,314	2.2
	Imports		284	222	20	23	10	18	165	-26.4
	Exports		836	782	57	68	52	64	698	5.7
	New Supply		873	733	34	77	73	58	781	-8.1
Paper Grades	Production		50,181	51,192	4,163	4,392	4,530	4,098	51,764	2.2
Chemical Pulp	Imports	A	4,370	4,326	348	293	387	386	4,637	4.4
	Exports		5,325	5,080	378	404	422	418	5,044	18.2
	New Supply		49,226	50,438	4,132	4,280	4,494	4,065	51,358	1.1
Groundwood and	Production		6,029	6,363	543	554	563	503	6,397	2.6
Thermo-Mech	Imports	A	351	345	22	14	26	26	315	-12.5
	Exports		70	44	3	4	1	3	24	-55.4
	New Supply		6,309	6,665	562	563	589	526	6,688	2.2
Semi-Chemical	Production		4,363	4,219	347	359	371	329	4,197	0.0
	Imports									
	Exports									
	New Supply		4,363	4,219	347	359	371	329	4,197	0.0
MARKET WOOD PULP										
Total Market	Production		8,664	8,798	672	737	764	756	9,115	4.0
Wood Pulp	Imports		3,539	3,215	257	226	256	280	3,211	-4.4
	Exports		5,309	5,561	415	530	435	477	5,472	20.2
	New Supply		6,893	6,451	514	433	584	558	6,854	-9.4
Dissolving Pulp	Production		1,422	1,292	71	123	115	104	1,313	2.1
	Imports		210	170	17	16	7	16	139	-2.9
	Exports		821	782	52	85	58	62	719	2.9
	New Supply		810	679	36	54	64	58	733	0.4
Paper Grades	Production		7,242	7,506	601	614	649	652	7,802	4.4
Chemical Pulp	Imports		3,072	2,813	225	197	229	247	2,857	-4.5
	Exports		4,489	4,779	364	446	378	415	4,753	23.3
	New Supply		5,825	5,540	462	366	500	484	5,907	-10.7
Groundwood Pulp	Production		0	0	0	0	0	0	0	0.0
and All Other	Imports	RS	258	232	16	13	19	17	215	-4.3
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		258	232	16	13	19	17	215	-4.0

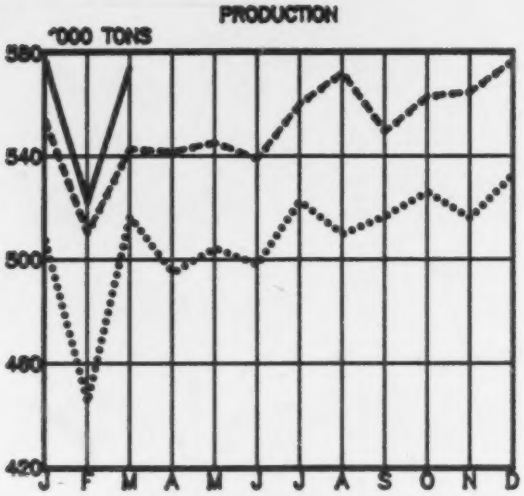
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.
NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data. RS – Revised Series.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1989	YEAR 1990	NOV 1990	DEC 1990	JAN (R) 1991	FEB (P) 1991	Annual Rate 1991	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,742	82,071	6,787	6,846	7,254	6,513	82,604	2.9
Total Wood Pulp	60,252	61,032	5,008	5,129	5,437	4,845	61,691	2.3
Waste Paper	19,490	21,039 R	1,778	1,717	1,816	1,669	20,912	4.7
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	193	226	201	226	201	216	216	0.6
Producers' Market Inventories	342	476	505	476	521	552	552	4.0
Consumers' Purchased Inventories #	519	392	358	392	419	409	409	-24.6
Waste Paper at Paper & Bd. Mills	1,082	909 R	981	909	927	917	917	-12.6
Days of Supply at Pulp Mills of								
Chemical Paper Grade Mkt Pulp	19	23	24	23	26	27	27	-6.9

SOURCES: Wood Pulp Data: Pulp Division, Pulp, Materials and Technology Group, API. Wood Pulp Consumption, 1989: Bureau of the Census.
Waste Paper Data: Paper Recycling Committee, API. # Includes all grades of wood pulp
P – Preliminary; R – Revised; 0 – Indicates zero to five-hundred short tons

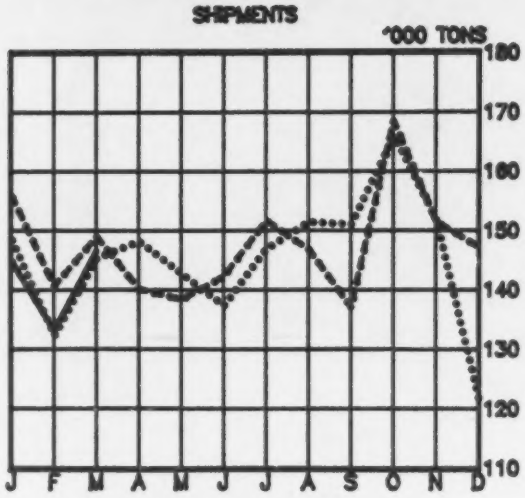
NEWSPRINT

PRODUCTION



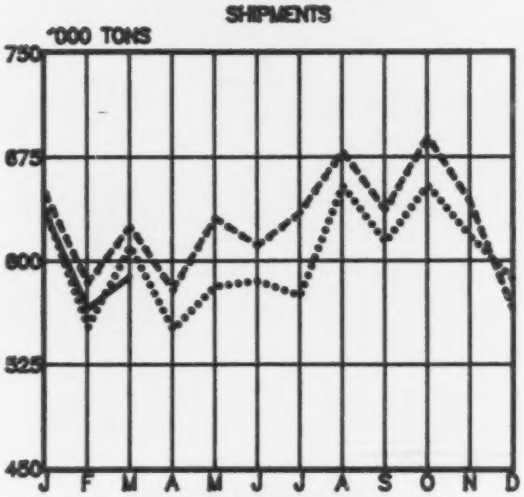
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



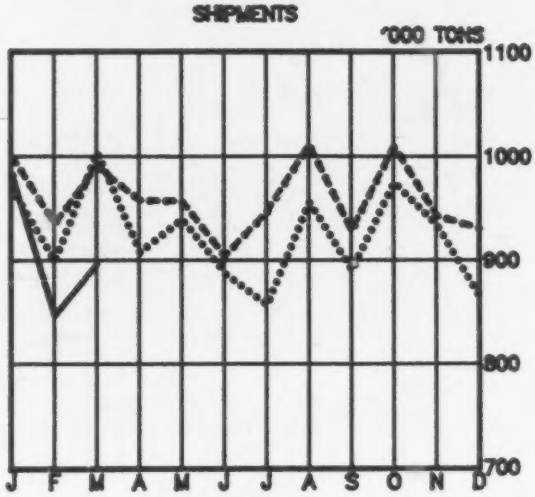
COATED PAPER

SHIPMENTS



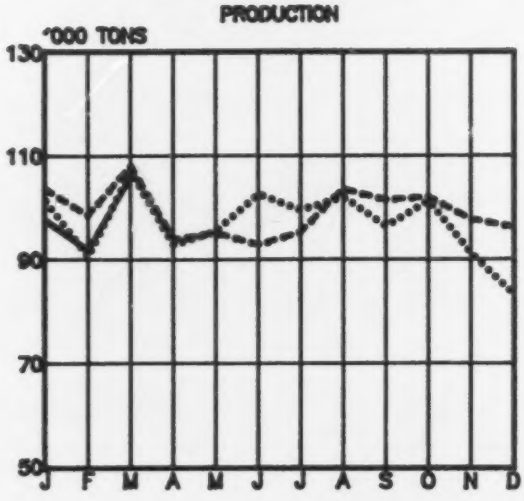
UNCOATED FREE SHEET PAPERS

SHIPMENTS



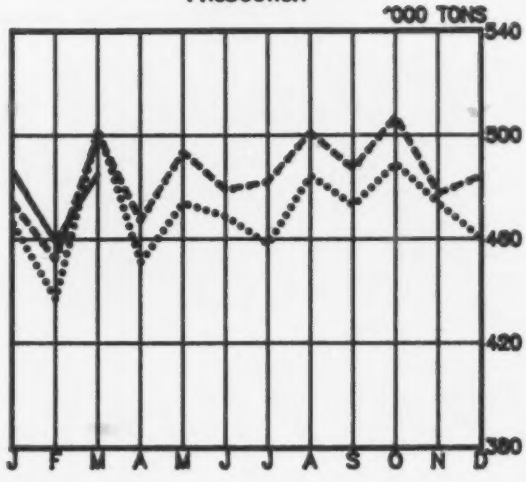
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1989 ····· 1990 - - - - 1991 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1989	YEAR 1990	NOVEMBER 1990	DECEMBER 1990	JANUARY 1991	FEBRUARY 1991	ANNUAL RATE Y-T-D 1991	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	99,279	99,304	8,180	7,920	8,779	8,171	101,700	0.0
– Total Consumption	98,414	99,109	8,120	8,012	8,801	8,115	101,496	1.5
– Residues *	34,539	35,727	2,953	2,764	2,969	2,777	34,478	-3.5
– Inventories	5,462	5,961	6,375	5,961	5,732	5,554	5,564	-0.8
So. Atlantic – Total Receipts	31,982	32,836	2,818	2,598	2,792	2,631	32,636	-2.7
– Total Consumption	32,239	32,412	2,579	2,667	2,868	2,659	33,182	2.0
– Residues *	9,961	11,181	903	911	991	854	11,070	-2.5
– Inventories	936	1,334	1,324	1,334	1,257	1,291	1,291	26.9
Northeast – Total Receipts	7,242	7,264	599	597	694	655	8,094	0.8
– Total Consumption	7,072	7,080	534	558	589	590	7,074	-4.1
– Residues *	1,575	1,505	123	124	146	140	1,716	13.5
– Inventories	522	449	458	449	504	531	531	-11.4
South Central – Total Receipts	35,840	37,246	3,149	3,059	3,467	2,893	38,760	7.3
– Total Consumption	35,791	36,784	3,068	3,027	3,431	3,079	39,080	7.0
– Residues *	10,539	11,516	953	920	1,028	923	11,706	5.9
– Inventories	1,336	1,879	2,072	1,879	1,715	1,472	1,472	25.6
North Central – Total Receipts	7,020	7,074	583	598	746	709	8,742	8.1
– Total Consumption	6,963	7,129	604	605	647	597	7,464	3.5
– Residues *	1,422	1,308	121	92	93	100	1,158	-10.6
– Inventories	938	1,014	1,004	1,014	1,113	1,144	1,144	5.8
West – Total Receipts	17,196	16,184	1,233	1,068	1,078	1,183	13,586	-15.3
– Total Consumption	16,349	15,704	1,315	1,156	1,266	1,190	14,736	-9.9
– Residues *	11,042	10,217	853	717	711	760	8,826	-16.0
– Inventories	1,730	1,285	1,517	1,285	1,143	1,116	1,116	-35.4

SOURCE: American Pulpwood Association

* – Consumption of Residues in cords equivalent

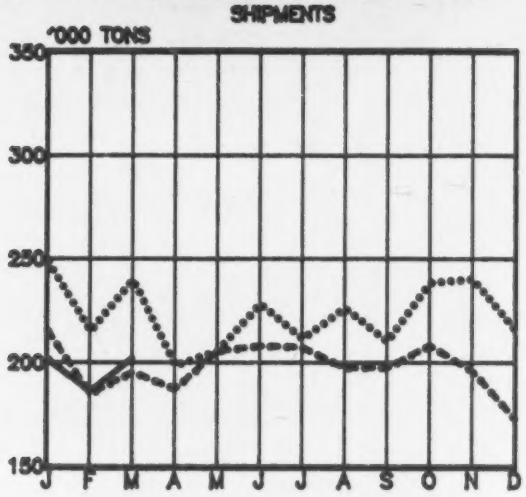
UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1990 Tons	YEAR 1990 ($000)	JANUARY 1991 Tons	JANUARY 1991 ($000)	FEBRUARY 1991 Tons	FEBRUARY 1991 ($000)	ANNUAL RATE Y-T-D 1991 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (in cubic meters)		0	0	0	0	0	0	0	0.0
Pulpwood chips		709,197	22,413	42,863	1,306	88,838	2,090	869,005	-0.2
Wood Pulp, Total	A	4,322,418	2,514,301	392,029	196,580	341,370	169,528	4,400,393	-3.5
Waste Fibrous Materials, Total		130,452	31,442	8,109	1,812	9,840	2,134	107,693	-27.3
Paper, Board & Products, Total	A	11,191,700	6,317,590	982,774	586,889	859,022	512,797	10,930,773	-1.6
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	11,047,032	5,968,425	960,920	538,290	847,976	483,663	10,793,375	-1.6
Paper, Paperboard & Products	A	11,066,239	6,284,416	967,851	585,499	854,488	511,801	10,872,832	-1.1
Paper & Paperboard, Only	A	10,921,571	5,935,250	945,798	536,901	843,442	482,457	10,735,434	-1.1
Paper, Total	A	10,385,506	5,723,101	897,941	517,105	800,306	464,191	10,189,477	-2.4
Newsprint	A	8,116,161	4,162,493	693,453	372,408	638,029	349,769	7,988,889	-3.7
Printing, Writing & Rel. Pap.	A	1,914,083	1,296,073	174,360	122,211	140,121	96,906	1,886,886	6.2
Pack. & Ind. Conv. Paper		211,903	121,069	20,369	12,119	14,544	9,159	209,474	-3.2
Special Industrial Paper		57,441	68,444	3,524	5,059	3,268	4,328	40,753	-46.8
Tissue Paper		83,917	76,023	6,235	5,309	4,344	4,029	83,475	-9.8
Paperboard, Total		536,067	212,149	47,857	19,795	43,136	18,268	545,957	30.0
Convtd Paper&Paperbd Products		144,868	349,166	11,853	29,598	11,046	29,144	137,366	1.9
Wet Machine Board		884	757	71	59	84	84	932	22.4
Construction Paper & Board		124,576	32,418	5,052	1,330	4,450	1,131	57,008	-47.4

	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	1,038,727	36,801	182,580	6,071	264,709	7,870	2,743,734	595.2
Pulpwood chips	193,841	9,066	19,089	837	16,381	818	212,819	70.7
Wood Pulp, Total	328,456	185,508	23,359	12,062	22,949	10,393	277,846	-30.5
Cotton Pulp & Other Pulp	4,373	4,284	534	487	375	355	5,450	84.8
Waste Paper	653,204	116,346	49,386	9,416	44,780	8,343	584,997	-1.3
Paper, Board & Products, Total	1,194,633	1,317,384	112,581	126,653	104,588	116,062	1,303,011	15.4
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	893,102	820,279	85,199	81,608	79,469	74,524	988,008	14.0
Paper, Paperboard & Products	1,192,443	1,315,696	112,485	126,571	104,411	115,983	1,301,258	15.4
Paper & Paperboard, Only	880,912	818,590	85,083	81,526	79,293	74,425	986,255	14.0
Paper, Total	821,586	595,962	49,692	58,727	50,322	56,676	800,086	15.7
Newsprint	20,813	11,389	1,585	939	2,103	1,312	22,130	9.1
Printing, Writing & Rel. Pap.	372,652	424,207	35,156	41,200	34,749	39,781	419,432	13.8
Pack. & Ind. Conv. Paper	52,367	36,780	5,176	3,967	4,780	3,379	50,732	13.7
Special Industrial Paper	59,301	108,279	5,079	9,756	4,554	8,671	59,596	-7.3
Tissue Paper	16,253	17,297	2,697	2,845	3,836	3,533	30,196	224.7
Paperboard, Total	369,326	222,636	36,391	22,799	28,971	17,749	356,170	11.3
Convtd Paper&Paperbd Products	301,531	497,106	27,382	47,044	25,118	41,538	315,003	20.0
Wet Machine Board	0	0	0	0	0	0	0	N.M.
Construction Paper & Board	2,190	1,889	116	82	176	99	1,753	54.9

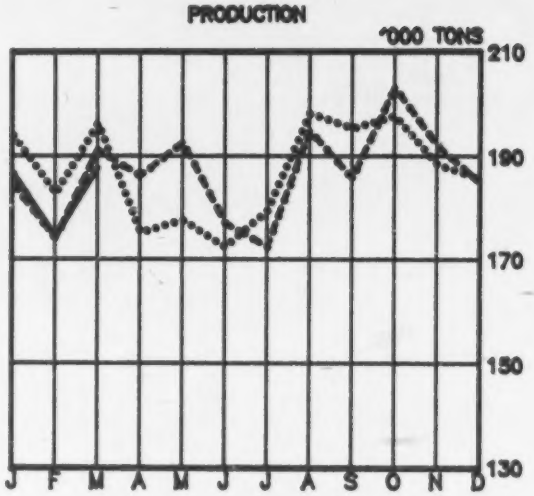
SOURCE: Bureau of Census, Department of Commerce .

E – Estimate of tonnage based on square foot data

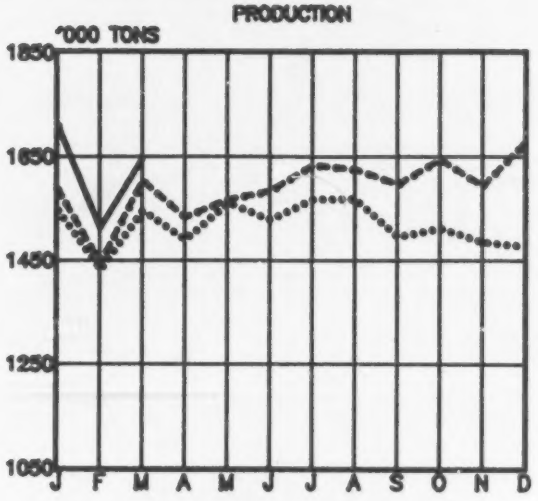
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER
SHIPMENTS



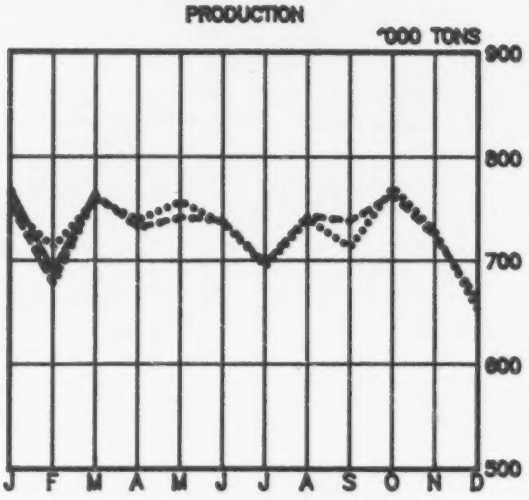
OTHER PAPER
PRODUCTION



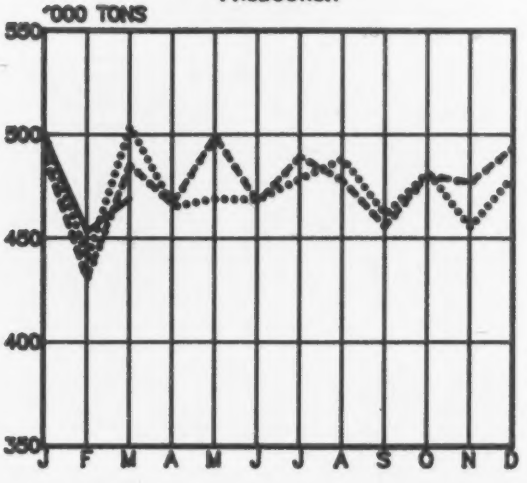
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



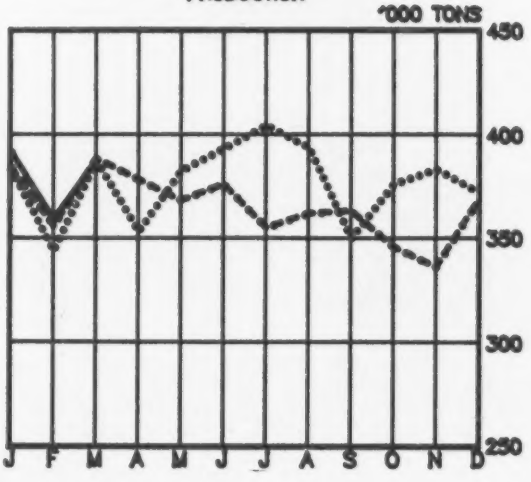
RECYCLED PAPERBOARD
PRODUCTION



SEMICHEMICAL PAPERBOARD
PRODUCTION



SOLID BLEACHED PAPERBOARD
PRODUCTION



1989 ..... 1990 -----1991 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1990		JANUARY 1991		FEBRUARY 1991		Annual Rate YTD 1991	% Change from same Period
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood Roundwood (cubic meters)		0	0	0	0	0	0	0	0.0
Pulpwood Chips		710,415	22,550	42,907	1,315	88,871	2,102	670,888	0.0
Total All Imports	A	18,177,409	11,292,258	1,544,019	936,815	1,453,893	875,393	17,967,470	-1.0
Wood Pulp Total	A	4,893,365	2,831,327	422,721	209,145	430,298	208,781	5,117,931	1.9
Waste Paper		122,539	26,349	8,360	1,832	10,588	2,154	113,586	-14.7
Other Fibrous Materials		14,037	9,286	955	983	334	184	7,732	-58.3
Paper Board & Products Total	A	13,147,479	8,425,293	1,111,984	724,856	1,012,723	663,295	12,748,242	-1.9
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,728,760	7,425,583	1,081,260	651,141	974,995	591,054	12,335,128	-2.1
Paper Ppbd & Prds ex Cnst&WMB	A	13,006,238	8,382,641	1,105,993	722,792	1,007,560	661,702	12,861,316	-1.5
Paper & Paperboard Only	A	12,587,819	7,382,931	1,075,298	649,078	969,432	589,461	12,298,202	-1.7
Paper Total	A	11,961,306	7,077,036	1,020,171	624,247	920,998	566,298	11,848,223	-2.8
Newsprint	A	6,299,557	4,247,131	703,995	376,919	650,714	355,418	6,128,255	-4.3
Printing & Writing	A	3,104,863	2,248,424	268,278	199,748	236,311	174,304	3,027,536	4.1
Uncoated Groundwood		1,337,581	843,550	118,310	76,323	110,297	72,057	1,371,097	14.1
Coated Print.& Impreg. Pap.	A	936,046	749,082	70,496	58,859	72,329	59,175	856,954	-5.2
Uncoated Free Sheet	A	752,448	584,479	70,549	54,104	47,098	35,043	705,880	-3.8
Thin (except Cigarette)		11,365	14,296	1,323	1,580	1,014	1,216	14,017	40.0
Bristols		67,424	77,017	7,601	8,880	5,864	6,814	79,589	36.4
Total Pkg & Other Paper		425,697	462,237	37,027	38,172	27,172	30,455	385,195	-13.2
Unbleached Kraft Paper		235,352	116,855	22,962	11,282	15,204	7,549	228,995	-0.4
Other Pkg. & Indust. Paper		190,345	345,582	14,065	26,890	11,968	22,906	156,200	-26.9
Tissue		131,189	119,244	10,871	9,411	8,869	8,109	105,238	-8.7
Paperboard, Total		626,213	305,895	55,098	24,831	48,566	23,175	621,979	19.5
Test or Containerboard		113,629	48,929	7,673	3,245	6,714	2,969	98,320	-19.4
Semi-Chemical Corrugating		111,935	31,152	9,618	2,405	4,642	1,149	85,559	-15.4
Other Paperboard		400,649	227,180	37,807	19,181	37,210	19,038	450,100	44.2
Convtd Paper&Paperbd Products		418,719	999,710	30,724	73,714	38,128	72,241	413,114	4.4
Paper Products, Total		313,106	807,967	22,471	58,877	30,911	57,361	320,293	5.3
Paperboard Products, Total		105,613	191,744	8,253	14,837	7,217	14,879	92,822	1.8
Wet machine Board		1,132	991	71	59	107	88	1,067	3.9
Construction Paper & Board E		140,110	41,661	5,920	2,004	5,057	1,505	85,859	-45.3
Notes									
Other: No Weight Avail. ($000)			136,809		10,251		8,783	114,206	16.3
Total Imports incl. Other($000)			11,429,064		946,866		884,177	10,966,256	-4.1

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1990		JANUARY 1991		FEBRUARY 1991		Annual Rate YTD 1991	% Change from same Period
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood, Roundwood (cubic meters)	1,122,468	39,971	195,024	6,377	267,872	7,951	2,776,176	503.8
Pulpwood Chips	4,637,669	412,018	409,908	36,786	489,068	40,829	5,383,964	31.9
Total All Exports	19,352,011	9,075,342	1,753,999	784,278	1,670,249	769,850	20,545,485	17.5
Wood Pulp,Total	5,905,339	3,155,671	475,471	230,783	425,984	227,368	5,795,005	15.7
Cotton Pulp and Other Pulp	195,632	104,808	8,028	6,929	9,799	9,756	108,788	-5.6
Waste and Old Paper	6,514,852	779,967	620,254	71,222	530,972	69,695	6,807,360	17.1
Paper, Board & Products,Total	6,796,388	5,035,177	650,248	475,344	644,144	472,742	7,788,354	19.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,748,620	3,449,743	549,026	329,063	538,446	314,249	6,524,836	19.3
Paper, Ppbd & Prod ex Cnst&WMB	6,786,518	5,028,683	646,373	473,794	643,432	472,220	7,738,830	19.4
Paper & Paperboard, Only	5,738,750	3,443,249	545,151	327,533	537,734	313,728	6,467,312	19.0
Paper, Total	1,519,052	1,455,104	124,976	131,842	149,530	137,473	1,848,838	11.3
Newsprint	535,993	293,182	36,750	22,136	49,481	29,448	517,385	-3.6
Printing & Writing	664,824	717,700	62,415	70,376	70,396	69,586	796,868	21.5
Uncoated Groundwood	75,299	63,574	5,498	4,808	10,854	8,229	98,096	58.7
Clay Coated Paper	218,684	215,289	19,397	18,362	19,047	18,405	230,965	17.3
Uncoated Free Sheet	232,369	306,127	24,838	34,373	29,495	32,470	325,986	41.0
Other Printing & Writing	138,472	132,709	12,685	12,833	11,000	10,485	142,111	-14.4
Total Pkg. & Other Paper	283,584	403,949	21,715	34,834	25,051	33,378	280,587	9.5
Unbleached Kraft	112,823	80,480	7,386	4,563	9,881	5,290	103,900	5.5
Other Pkg. & Indust. Paper	170,756	343,469	14,330	30,271	15,170	28,088	176,688	11.9
Tissue	34,861	40,273	4,096	4,497	4,902	5,061	53,987	66.5
Paperboard, Total	4,219,898	1,988,144	420,175	195,690	387,804	178,254	4,848,474	21.9
Solid Wood Pulp	3,993,101	1,867,502	396,773	182,416	371,859	169,093	4,610,591	22.6
Total Linerboard	2,924,140	1,076,705	289,316	104,315	272,898	96,934	3,373,283	21.9
Bleached Kraft Linerboard	335,444	150,819	38,942	16,413	29,933	12,947	413,246	23.7
Unbleached Kraft Linerbd	2,588,697	925,886	250,374	87,902	242,965	83,987	2,960,037	21.8
Other Unbleached Kraft	253,945	144,169	30,669	18,124	27,478	15,268	348,881	30.0
Other Bleached Kraft	784,550	628,859	72,220	58,296	65,743	53,862	827,774	19.4
Semi-Chemical Corrugating	50,466	17,769	4,568	1,663	5,541	1,930	60,652	97.2
Recycled Paperboard	226,596	120,643	23,402	13,275	19,245	9,161	237,883	9.1
Convtd Paper&Paperbd Products	1,047,788	1,885,435	101,222	148,281	105,898	158,493	1,241,518	21.2
Paper Products, Total	440,793	1,012,842	40,777	90,939	45,578	104,229	518,128	31.7
Paperboard Products, Total	606,975	572,793	60,445	55,323	60,120	54,184	723,391	14.8
Wet Machine Board	487	232	28	31	16	9	248	-78.7
Construction Paper & Board E	9,384	9,262	3,850	1,519	696	517	27,276	226.9
Notes								
Other: No Weight Avail. ($000)		49,984		4,188		4,986	83,245	45.8
Total Exports Incl. Other($000)		9,125,306		788,467		774,536	9,378,018	10.1

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR 1989	YEAR 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	Annual Rate Y-T-D 1991	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	132.4	132.9	132.9	132.4	132.5	131.9	132.3	-0.8
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	132.0	132.8	132.9	132.4	132.4	131.8	132.2	-0.6
Total Wood Pulp	157.4	151.5	144.7	133.5	132.9	126.7	131.0	-17.8
Total Paper	129.6	128.8	129.9	130.4	130.5	130.0	130.3	2.1
Writing Paper, exc. Newsprint	130.5	129.1	130.1	130.0	129.7	128.8	129.5	1.2
Newsprint	122.5	119.6	122.2	125.7	126.8	126.9	126.5	9.1
Total Paperboard	140.1	135.8	133.9	132.7	132.1	130.2	131.7	-5.3
Total Paper and Paperboard *	132.9	131.0	131.2	131.1	131.0	130.1	130.7	-0.4
Converted Products	131.7	135.1	135.9	136.0	136.1	136.2	136.1	1.2
Waste Paper	157.1	138.7	131.4	131.8	135.6	135.4	134.3	-10.6
All Commodities	112.2	116.3	118.6	118.9	117.2	116.1	117.4	2.5
Industrial Commodities	111.6	115.8	118.9	119.3	117.2	115.6	117.4	3.3

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

PAPER AND ALLIED PRODUCTS INDUSTRY
SALES, EARNINGS AND BALANCE SHEET DATA
1982 – 1990
(Millions of Dollars)

	Net Sales	Net Profit Before Taxes	Net Profit Before Taxes to Net Sales (%)	Taxes	Net Profit After Taxes	Net Profit After Taxes to Net Sales (%)	Stock-holders Equity	Return on Equity (%)	Long-term Debt	Total Assets
1982	60,293	2,120	3.5	680	1,460	2.4	26,705	5.5	13,149	52,915
1983	66,100	3,439	5.2	1,102	2,337	3.5	27,509	8.5	13,946	56,126
1983 R	65,008	3,424	5.3	1,096	2,327	3.6	27,219	8.5	13,565	54,821
1984	71,891	4,812	6.7	1,798	3,015	4.2	28,160	10.7	13,802	58,520
1985	71,761	4,424	6.2	1,533	2,891	4.0	29,780	9.7	15,262	62,613
1985 R	71,465	4,399	6.2	1,519	2,880	4.0	29,694	9.7	15,262	62,505
1986	74,896	5,318	7.1	2,025	3,293	4.4	31,254	10.5	16,920	69,132
1986 R	74,844	5,298	7.1	2,018	3,280	4.4	31,221	10.5	16,906	69,082
1987	86,603	8,077	9.3	3,088	4,989	5.8	35,162	14.2	20,152	76,791
1987 R	95,576	8,860	9.3	3,338	5,520	5.8	39,217	14.1	22,417	85,279
1988	107,014	12,204	11.4	4,127	8,077	7.5	42,933	18.8	27,067	95,295
1988 R	107,221	12,210	11.4	4,129	8,081	7.5	42,940	18.8	27,180	95,444
1989	112,238	10,771	9.6	3,771	7,000	6.2	45,888	15.3	33,193	107,572
1989 R										
First Quarter	110,376	12,172	11.0	4,184	7,992	7.2	43,811	18.2	29,016	98,562
Second Quarter	115,448	14,412	12.5	4,344	8,068	7.0	44,954	17.9	31,248	102,895
Third Quarter	113,824	11,876	10.4	4,388	7,488	6.6	46,248	16.2	32,909	105,834
Fourth Quarter	114,644	7,000	6.1	2,360	4,640	4.0	45,642	10.2	34,543	109,038
Total	113,573	11,365	10.0	3,819	7,047	6.2	45,642	15.4	34,543	109,038
1990										
First Quarter	114,136	8,412	7.4	2,856	5,556	4.9	48,519	11.5	37,028	114,912
Second Quarter	115,376	9,388	8.1	2,868	6,520	5.7	45,597	14.3	36,921	111,321
Third Quarter	115,448	7,636	6.6	2,652	4,984	4.3	45,185	10.5	38,460	113,708
Fourth Quarter	113,784	3,312	2.9	996	2,316	2.0	46,462	5.0	39,961	116,812
Total	114,686	7,187	6.3	2,343	4,844	4.2	46,462	10.4	39,961	116,812

NOTE: Quarterly data are at annual rates.
R=Revised to reflect changes in the number of companies classified to this industry.
SOURCE: Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations – Bureau of the Census, U.S. Department of Commerce.

WD23

Total containerboard production, bolstered by a 16% increase in production of unbleached kraft paperboard for export, gained 2.9% from its year-ago level in the first quarter of 1991.

Total boxboard production, restrained by a 6.4% decline in bleached kraft paperboard production for export, was off by 0.4%, but production of boxboard for domestic packaging use, defying market trends, rose 5.0%. Unbleached kraft folding boxboard increased 17%, reflecting both the relatively low rate of year-ago production and the start-up of a new machine producing these grades in the fall of 1990.

Bleached kraft folding boxboard output fell short of its year-ago total as mills took downtime for maintenance and repair. Conversely, clay coated recycled folding boxboard gained 8.1%.

IMPORTS AND EXPORTS

Lower domestic demand held total paper and paperboard imports below their year-ago levels in the first two months of 1991 (see table on page 9; the current import and export data presented in this table are fully consistent with year-ago totals for the first time since the Harmonized System was introduced two years ago).

As in domestic production, import weakness was centered on the paper grades, where a 2.6% decline was reported, largely the result of a 4.3% drop in imports of newsprint as publishers shifted to domestic sources. Newsprint accounted for 70% of total paper imports.

Imports of groundwood paper, however, rose 14%, to 1.37 million tons per year, as users continued to rely on Canadian and overseas producers for this grade of paper. Census data indicate that three-quarters of the total came from Canadian mills. However, data from the Canadian Pulp and Paper Association indicate that Canadian mills supplied the U.S. with another 500,000 tons per year of these papers, which apparently are included with newsprint. When the CPPA totals are taken into account, the January-February 1991 annual rate of groundwood paper imports rises to 1,866,000 tons, equivalent to 54% of the new supply.

Census reported paperboard imports up by 20%, reflecting a 44% increase in the recycled and bleached kraft grades. Imports of the containerboard grades were down sharply.

The Census data show that paper and paperboard exports were a major support to domestic production levels during the first two months of 1991. Paper exports, at 1.65 million tons per year, rose 11%, while exports of paperboard, consistent with API data on production for export, posted a 22% increase. The Census paperboard total of 4.8 million tons, however, is 20% higher than the comparable API rate for that period; Census data on bleached kraft and recycled paperboard is considerably above the comparable information reported to API by paperboard producers.

FIBROUS RAW MATERIALS

Preliminary data for the first three months of 1991 indicate that production of chemical paper grade market pulp increased 3.8% compared to the same period in 1990. Shipments showed even greater strength, rising 11.5 % in the first quarter, with export shipments contributing the entire 196,000 ton gain. Exports to Western Europe increased 20.6% (93,000 tons), Japan, 33.9% (68,000 tons), and to other Asian/African countries, 16.9% (45,000 tons).

The U.S. capacity utilization rate for chemical paper grade market pulp dipped to 89% in March, lowering the year-to-date average to 94%. This first quarter 1991 rate was above those of the other major pulp manufacturing countries -- Canada (90%), Sweden (93%), and Finland (80%).

SALES AND EARNINGS

Sales of 24 publicly-owned paper and allied products companies dropped 4% in the first quarter of 1991 from the same period a year-ago, while after-tax profits were nearly halved. This pattern is consistent with recent market trends. Sales margins, however, appear to be strengthening, rising to 3.4% in the first quarter of 1991 from their low of 2.2% in the fourth quarter of 1990.

The Department of Commerce's recently released Quarterly Financial Report details the paper industry's collective balance sheet and profit and loss statement for 1990. Sales of companies included in the Census report rose 1.0% in 1990; net income fell 50.1%. In comparison, sales for 24 publicly-owned paper and allied products companies, as reported in the press, grew 5.3% in 1990; after-tax profits dropped 37.1%.

Annual Census totals for 1982 to 1990, together with quarterly data for the last two years, are summarized in the table at the bottom of page 10. The quarterly data highlight the timing of the recession's impact on the paper and allied products industry's sales and profits. Below is a condensed review of the available first quarter statements.

Paper and Allied Products Companies
Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1991	1990	91/90	1991	1990	91/90	1991	1990
	Thousand Dollars		% Change	Thousand Dollars		% Change	%	%
	24 Paper and Allied Products Companies							
First Quarter	16,753,384	17,502,050	-4.3	562,489	1,013,100	-44.5	3.36	5.79
Second Quarter		17,706,696			966,875			5.46
Third Quarter		17,633,467			737,920			4.18
Fourth Quarter		17,720,977			393,150			2.22
Year-to-date	16,753,384	17,502,050	-4.3	562,489	1,013,100	-44.5	3.36	4.41
Full Year		70,563,190			3,111,045			

INTERNATIONAL PRODUCTIVITY AND LABOR COST COMPARISONS

The Bureau of Labor Statistics (BLS) recently published data on output per manhour, employment, hourly compensation and unit labor costs (the ratio of hourly compensation to output per hour) in 14 countries, including the United States, for the period from 1960 through 1989.

Output per manhour in all manufacturing in the various countries is an important indicator of the increases in the country's standard of living and its potential as a market for foreign goods. The new data show that such major importers of paper and allied products from the United States as Japan, France, West Germany and the United Kingdom reported output per hour gains from 1988 to 1989 ranging from 4.2% (West Germany) to 6.1% (Japan). The increase in the United States was 3.3%. For the decade ending in 1989, Japan enjoyed a 5.5% per year increase in output per manhour, the United Kingdom, 4.7% per year, and Italy, 4.2%. In the other countries, output per manhour grew less than the United States' 3.6% per year.

Unit labor costs in all manufacturing are one indication of the competitive position of the various countries as exporters. The 0.6% increase in U.S. unit labor costs from 1988 to 1989 was close to the median when costs in other countries are measured in terms of their own currencies. Five countries -- Norway, Netherlands, France, Germany and Japan -- reported lower increases, ranging from -2.0% in Norway, to +0.4% in Japan. Sweden and Canada, major pulp and paper exporting countries, reported increases of 8.8% and 6.7%, respectively.

When the calculations were based on hourly compensation adjusted for each country's exchange rates relative to the U.S. dollar, eight countries showed smaller increases than the U.S.' 0.6% from 1988 to 1989. For the 1979-1989 period, five countries matched or fell below the 1.9% per year increase in unit labor costs reported for the United States.

Changes in unit labor costs for the Nordic and Western European countries in dollar terms were sharply lower than those in their national currencies because of increases in the value of the dollar relative to their respective currencies from 1988 to 1989. The U.S. dollar declined relative to those of Canada, Korea and Taiwan, and unit labor costs in these countries, measured in U.S. dollars, were sharply higher.

The table on page 14 presents data on changes in output per manhour, unit labor costs in local currencies and unit labor costs in U.S. dollars for each of the 14 countries for selected periods from 1960 through 1989.

CHANGES IN OUTPUT PER HOUR AND UNIT LABOR COSTS IN MANUFACTURING
14 COUNTRIES, 1960–1989

	UNITED STATES	CANADA	JAPAN	KOREA	TAIWAN	BELGIUM	DENMARK	FRANCE	GERMANY	ITALY	NETHER-LANDS	NORWAY	SWEDEN	UNITED KINGDOM
							PERCENT PER YEAR							
OUTPUT PER HOUR														
1960–1989	3.0	3.0	7.6	N.A.	N.A.	6.0	4.1	5.0	4.1	5.4	5.6	3.6	4.1	3.7
1960–1973	3.3	4.5	10.3	N.A.	N.A.	6.9	6.4	6.4	5.7	6.4	7.4	4.7	6.4	4.2
1973–1989	2.7	1.7	5.5	N.A.	N.A.	5.3	2.2	3.8	2.7	4.6	4.2	2.7	2.3	3.4
1973–1979	1.4	2.1	5.5	N.A.	N.A.	6.0	4.2	4.6	4.2	5.7	5.5	2.1	2.6	1.2
1979–1989	3.6	1.5	5.5	N.A.	N.A.	4.9	1.0	3.4	1.8	4.0	3.4	3.0	2.2	4.7
1979–1987	3.3	1.7	5.5	N.A.	N.A.	5.2	0.7	3.0	1.3	4.2	3.4	2.6	2.5	4.7
1987–1988	6.0	0.6	4.7	N.A.	N.A.	5.9	2.1	5.1	3.4	2.8	4.1	2.9	1.3	5.2
1988–1989	3.3	0.7	6.1	N.A.	N.A.	1.0	2.7	4.7	4.2	2.9	2.8	6.4	0.3	4.6
UNIT LABOR COSTS: NATIONAL CURRENCY BASIS														
1960–1989	3.1	4.6	3.0	N.A.	N.A.	3.6	6.3	5.8	4.0	8.5	3.6	6.8	6.3	7.3
1960–1973	1.8	1.6	4.3	N.A.	N.A.	3.8	5.5	3.4	4.3	5.5	5.2	5.4	3.9	4.8
1973–1989	4.2	7.1	1.9	12.4	7.5	3.4	7.0	7.9	3.8	11.0	2.4	8.0	8.2	9.4
1973–1979	8.2	9.8	6.9	20.2	11.3	7.5	9.4	11.2	4.9	15.9	5.8	11.0	11.3	18.0
1979–1989	1.9	5.6	-0.9	8.0	5.3	1.0	5.6	5.9	3.1	8.2	0.4	6.2	6.4	4.6
1979–1987	2.6	5.6	-0.9	6.6	5.7	1.3	6.7	7.6	3.8	9.1	1.1	7.6	6.3	5.2
1987–1988	-2.5	4.1	-2.4	11.2	3.2	-3.7	0.5	-0.8	0.4	2.4	-2.2	3.2	5.1	0.4
1988–1989	0.6	6.7	0.4	15.7	4.4	4.1	2.2	-0.1	0.3	7.6	-2.0	-2.0	8.8	3.5
UNIT LABOR COSTS: U.S. DOLLAR BASIS														
1960–1989	3.1	3.9	6.5	N.A.	N.A.	4.4	6.1	4.9	6.9	5.6	5.7	6.9	5.4	5.4
1960–1973	1.8	1.3	6.6	N.A.	N.A.	5.8	6.6	4.2	8.0	6.0	7.7	7.2	5.3	3.7
1973–1989	4.2	6.0	6.3	8.8	10.0	3.3	5.7	5.4	6.0	5.2	4.2	6.7	5.6	6.7
1973–1979	8.2	6.9	10.8	16.4	12.4	12.7	11.9	12.0	11.6	9.2	11.7	13.3	11.5	15.2
1979–1989	1.9	5.5	3.7	4.5	8.6	-1.9	2.2	1.7	2.8	2.9	-0.1	2.9	2.2	1.9
1979–1987	2.6	4.0	4.4	-0.2	7.4	-1.7	3.3	3.0	4.0	3.1	0.9	3.8	1.2	1.9
1987–1988	-2.5	12.2	10.1	25.0	14.4	-2.2	2.1	0.0	2.7	2.0	0.2	6.6	8.7	9.0
1988–1989	0.6	10.9	-6.8	26.1	13.3	-2.9	-5.9	-6.7	-6.3	2.2	-8.6	-7.5	3.4	-4.8

NOTES: RATES OF CHANGE BASED ON THE COMPOUND RATE METHOD.
HOURLY COMPENSATION DATA ADJUSTED TO INCLUDE EMPLOYMENT TAXES THAT ARE NOT COMPENSATION TO EMPLOYEES, BUT ARE LABOR COSTS TO EMPLOYERS.

N.A. - NOT AVAILABLE.

SOURCE: U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

WD23

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 69, NO. 4
APRIL, 1991

PRODUCTION (000 TONS)

	(P) MAR 1991	(R) FEB 1991	MAR 1990	FIRST 3 MONTHS 1991	FIRST 3 MONTHS 1990	% CHANGE YR TO DATE 1991/1990
PAPER GRADES						
Newsprint	574	522	543	1,671	1,606	4.1
Printing & Writing	1,768	1,665	1,914	5,324	5,654	-5.8
Uncoated Groundwood (s)	147	133	149	424	445	-4.7
Coated Groundwood (s)	330	314	343	996	1,027	-3.0
Coated Free Sheet (s)	258	251	282	793	830	-4.5
Total Coated Paper (s)	588	565	625	1,789	1,857	-3.7
Uncoated Free Sheet Paper (s)	896	846	990	2,724	2,925	-6.8
Thin Paper (s)	18	17	27	55	74	-25.5
Cotton Fiber Paper (s)	13	11	16	37	43	-13.5
Bleached Bristols (s)	106	92	108	295	310	-4.9
Tissue Paper	485	459	500	1,429	1,425	0.3
Total Pkg & Other Paper	390	360	387	1,138	1,145	-0.6
Unbl. Kraft Paper (s)	202	186	196	590	596	-0.9
Bl. Kraft Paper (s)	36	36	39	106	122	-13.1
Specialty Pkg. Paper	50	46	48	148	134	10.5
Special Industrial Paper (s)	102	93	105	294	293	0.2
TOTAL PAPER	3,217	3,006	3,344	9,563	9,830	-2.7
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,701	1,624	1,715	5,148	4,961	3.8
Unbleached Kraft Linerboard	1,582	1,511	1,601	4,802	4,652	3.2
Other Unbl. Kraft Paperboard	119	113	114	346	309	12.1
Semichemical Paperboard	469	453	485	1,420	1,405	1.1
Bleached Paperboard	387	359	391	1,138	1,132	0.5
Recycled Paperboard	767	690	782	2,223	2,249	-1.1
TOTAL PAPERBOARD	3,324	3,126	3,373	9,929	9,747	1.9
TOTAL PAPER AND PAPERBOARD	6,540	6,131	6,717	19,493	19,577	-0.4

	FEB 1991	JAN 1991	FEB 1990	FIRST 2 MONTHS 1991	FIRST 2 MONTHS 1990	% CHANGE 1991/1990
Dissolving & Special Alpha	104	115	89	219	214	2.2
Bleached Sulfite)	123	129	140	252	265	-4.9
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,229	2,432	2,175	4,661	4,560	2.2
Unbleached Sulfate	1,746	1,969	1,721	3,715	3,614	2.8
Semichemical	329	371	326	700	700	0.0
Groundwood & Thermomechanical	503	563	500	1,066	1,040	2.6
TOTAL PULP DIVISION DATA	5,033	5,579	4,951	10,612	10,392	2.1

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA April 30, 1991	1989	1990	1991	1991 R	1991 P	AR RATE Y-T-D 91	% CH/ SAME PD 90
PAPER AND PAPERBOARD -- Tons (000)			JANUARY	FEBRUARY	MARCH		
Total Production (API) excluding :	76,785	78,834	6,821	6,131	6,540	77,971	-0.4
Total Seasonally Adjusted construction :			6,613	6,503	6,262	77,513	-0.4
Imports (Including Products) and wet : E	12,910	13,006	1,106	1,008	1,000	12,454	-5.6
Exports (Including Products) machine : E	6,263	6,787	646	643	650	7,759	15.6
Apparent Consumption grades :	83,432	85,054	7,073	6,867	6,612	82,206	-2.5
Paper Production % Tonnage Capacity	93.0	93.4	91.4	90.5	87.5	89.8	-
Paperboard Production % Tonnage Capacity	94.0	94.2	95.8	95.1	91.6	94.2	-
PAPER, PAPERBOARD AND PRODUCTS			DECEMBER	JANUARY	FEBRUARY		
Imports Including Construction and :	13,100	13,147	994	1,112	1,013	12,748	-1.9
Exports WMB Grades (excl. HPB) :	6,300	6,796	524	650	644	7,766	19.6
MARKET WOOD PULP PRODUCTION - Tons (000)	8,664	8,798	737	764	756	9,115	4.0
TOTAL WOOD PULP PRODUCTION - Tons (000)	61,998 f	63,068 f	5,428	5,579	5,033	63,672	2.1
WOOD PULP IMPORTS - TONS (000)	5,005	4,893	329	423	430	5,118	1.9
WOOD PULP EXPORTS - TONS (000)	6,231	5,905	477	475	485	5,765	15.7
RAW MATERIALS CONSUMPTION - Tons (000)							
PAPER AND BOARD MILLS excluding :			DECEMBER	JANUARY	FEBRUARY		
Wood Pulp consumption for :	60,252	61,032	5,129	5,437	4,845	61,691	2.3
Waste Paper construction & :	19,490	21,039	1,717	1,816	1,669	20,912	4.7
TOTAL WMB grades :	79,742	82,071	6,846	7,254	6,513	82,604	2.9
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	98,414	99,194 R	8,012	8,801	8,115	101,496	1.5
EMPLOYMENT (000)			JANUARY	FEBRUARY	MARCH		
Paper and Allied Products Total	697.1	698.4	690.6	689.4	687.6	689.2	-0.7
Pulp, Paper and Board Mills Total A	246.0	246.3	244.4	243.1	242.4	243.3	-0.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			JANUARY	FEBRUARY	MARCH		
Paper and Allied Products	11.96	12.30	12.51	12.51	12.57	12.53	3.5
Pulp, Paper Mills A	14.73	15.20	15.31	15.33	15.41	15.35	2.9
Paperboard Mills E	14.76	15.25	15.55	15.49	15.49	15.51	3.6
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1990 Q3	1990 Q4	1991 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	15.58	16.84	16.74	14.46	13.10 Y		-25.4
INDEX OF OUTPUT PER MAN-HOUR (1982=100)			JANUARY	FEBRUARY	MARCH		
:IN PULP, PAPER: Production Workers	126.3	128.4	129.9	129.4	125.5	128.3	-0.5
:AND BOARD MILLS: All Employees	127.0	129.1	131.0	130.4	126.5	129.3	0.2
PAPER AND ALLIED PRODUCTS ($Million $)			JANUARY	FEBRUARY	MARCH		
Industry Shipments (Dept. of Commerce)*	130,501	131,080	10,216	10,218	10,027	121,844	-6.1
Pulp, Paper and Paperboard*	57,700	56,356	4,484	4,413	4,377	53,096	-4.5
Inventories (End of Period) - Total Industry*	12,571	12,980	13,547	13,695	13,776	13,776	8.9
Pulp, Paper and Paperboard*	4,980	5,305	5,444	5,530	5,594	5,594	12.9
PAPER AND ALLIED PRODUCTS COMPANIES ($Million $)			1990 Q2	1990 Q3	1990 Q4		
Sales (Corporations Only)	113,573	114,686	28,844	28,862	28,446	N.D.	N.D.
Earnings (Corporations Only)	7,047	4,844	1,630	1,246	579	N.D.	N.D.
Depreciation (Corporations Only)	5,010	5,535	1,341	1,380	1,467	N.D.	N.D.
Net Worth (Corporations Only)	45,642	46,462	45,597	46,185	46,462	N.D.	N.D.
PRICE INDEXES (Bureau of Labor Stats)1982=100			JANUARY	FEBRUARY	MARCH		
Pulp, Paper & Products, ex. Building Grades	132.4	132.9	132.4	132.5	131.9	132.3	-0.8
Wood Pulp	157.4	151.5	133.5	132.9	126.7	131.0	-17.8
Waste Paper	157.1	136.7	131.8	135.6	135.4	134.3	-10.6
Paper	129.6	128.8	130.4	130.5	130.0	130.3	2.1
Paperboard	140.1	135.8	132.7	132.1	130.2	131.7	-5.3
PAPER DEMAND (INDEXED: 1967=100)			JANUARY	FEBRUARY	MARCH		
Total Paper Production *	103.7	106.9	105.2	102.9	99.6	102.6	-2.7
Paper New Supply *	102.4	104.7	103.9	99.1	98.1	100.4	-3.8
Demand Indicators - (Weighted Average) *	107.8	110.1	109.9	108.6	108.1	108.9	-1.0
Production of Nondurable Goods * (21.2%)	106.4	107.8	106.9	105.7	105.5	106.0	-1.5
Disposable Income * (23.9%)	107.2	108.1	106.8	106.8	107.0	106.9	1.5
Total Printing and Publishing * (54.9%)	108.6	111.9	112.4	110.5	109.5	110.8	-0.5
PAPERBOARD DEMAND (INDEXED: 1967=100)			JANUARY	FEBRUARY	MARCH		
Total Paperboard Production *	103.0	105.4	106.2	106.9	102.4	105.8	1.9
Production for Domestic Use	103.2	104.7	106.8	105.1	98.5	103.5	0.9
Demand Indicators - (Weighted Average) *	107.2	107.9	105.7	104.8	104.9	105.1	-1.9
Production of Consumer Goods * (62.06%)	106.6	107.3	105.5	104.6	104.9	105.0	-1.7
Production of Equipment * (5.75%)	112.3	115.5	113.7	113.2	112.7	113.2	-0.1
Production of Materials * (32.19%)	107.4	107.8	104.7	103.9	103.4	104.0	-2.6
MARKET DATA			DECEMBER	JANUARY	FEBRUARY		
Consumption by Publishers - Tons (000)	13,493	13,368	1,114	1,016	944	11,759	-6.2
Newspaper Pub. and Printing Empl. Total(000)	473	478	477	472	469	470	-1.2
Magazine Advertising Pages (PIB, Inc.)	181,996	174,282	15,202	9,466	12,840	133,836	-10.0
Wholesalers Sales and Inventories ($Million $)			DECEMBER	JANUARY	FEBRUARY		
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	50,015 RS	51,454	3,944	4,419	3,947	50,196	2.3
Inventories (End of Period)	4,132 RS	4,300	4,300	4,382	4,252	4,252	5.1
FIBRE BOX DATA (Fibre Box Association)			JANUARY	FEBRUARY	MARCH		
Fibre Box Shipments (Million square feet)	313,400	318,102	27,440	24,137	24,495	304,288	-3.8
Container'bd Inventory at Mill & Plant (000 Tons)	2,589	2,765	3,102	3,096	2,986	2,986	13.7
RETAIL TRADE ($Billion $)							
Total Retail Sales *	1,742 RS	1,808	147.8	150.8	148.6	1,793	-0.8
Nondurable Goods Stores Sales *	1,089 RS	1,153	96.9	97.8	97.1	1,167	2.9
GENERAL ECONOMIC DATA			JANUARY	FEBRUARY	MARCH		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	108.1	109.2	108.6	105.7	105.3	105.9	-2.2
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	112.2	116.3	118.9	117.2	116.1	117.4	2.5
CONSUMER PRICES (ALL ITEMS-URBAN CON.) (1982-4=100)	124.0	130.7	134.6	134.8	135.0	134.8	5.3
GROSS NATIONAL PRODUCT - ANNUAL RATE ($Billions$)			1990 Q3	1990 Q4	1991 Q1		
G.N.P. or Expenditure - Current $	5,201	5,465	5,515	5,527	5,562	5,562	3.5
G.N.P. or Expenditure - 1982 $	4,118	4,157	4,170	4,153	4,124	4,124	-0.6
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	671 RS	681	N.D. - No data available for 1991			653	

f - Wood Pulp Prod exc def., expls & scr. R - Revised RS - Revised series E - Last month estimated by API A - Est. by API Y - 1st quarter est. by Dept. o.' Commerce * Seasonally Adjusted